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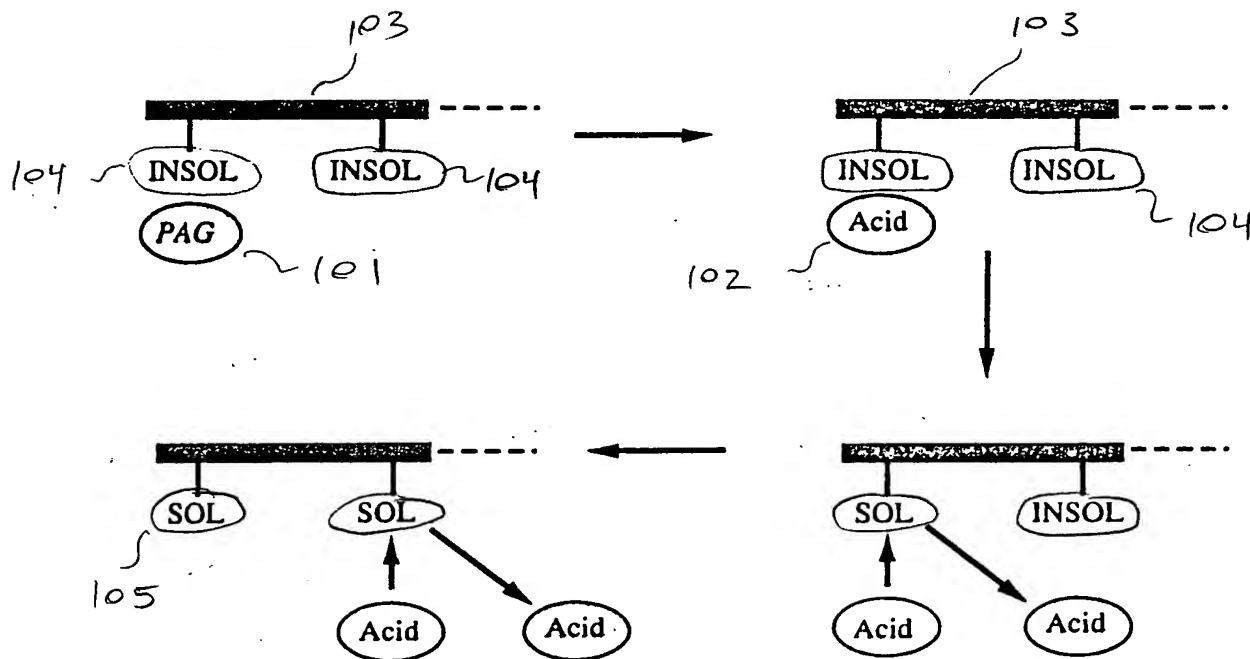


Fig. 1

FIG. 2

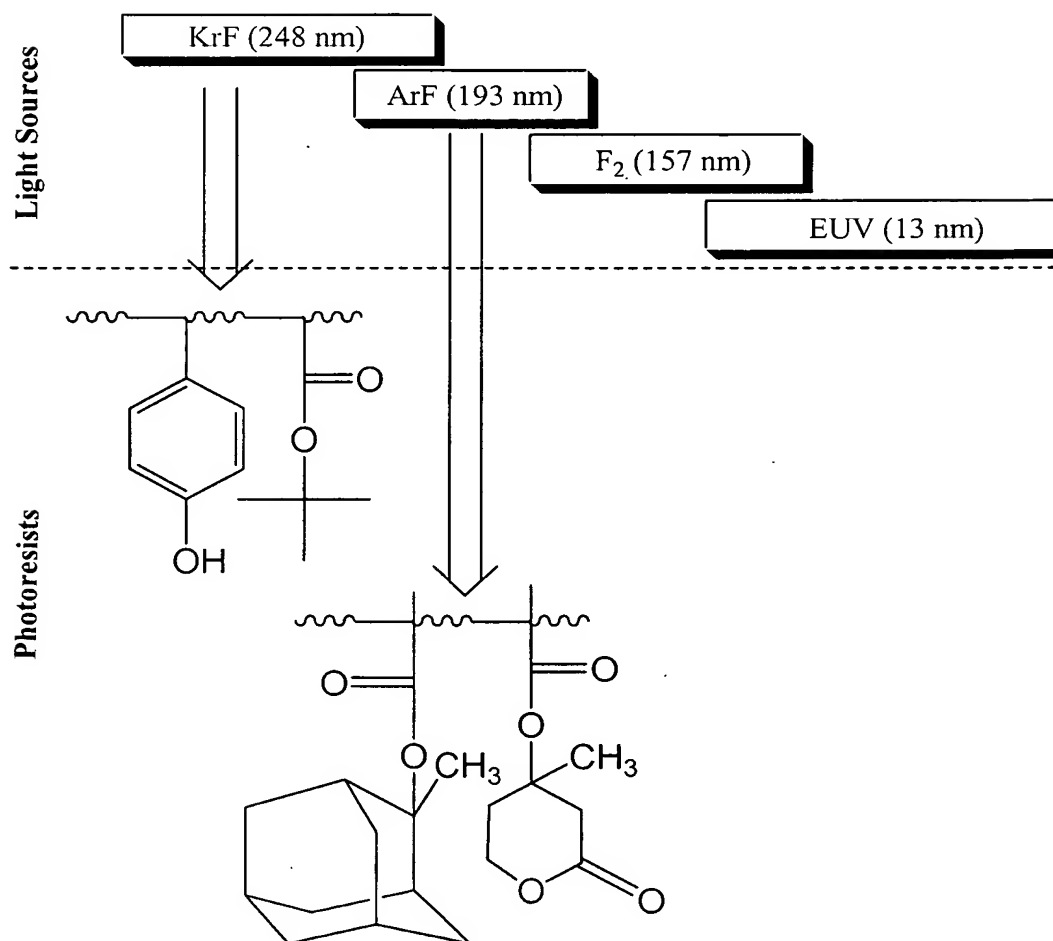


FIG. 3

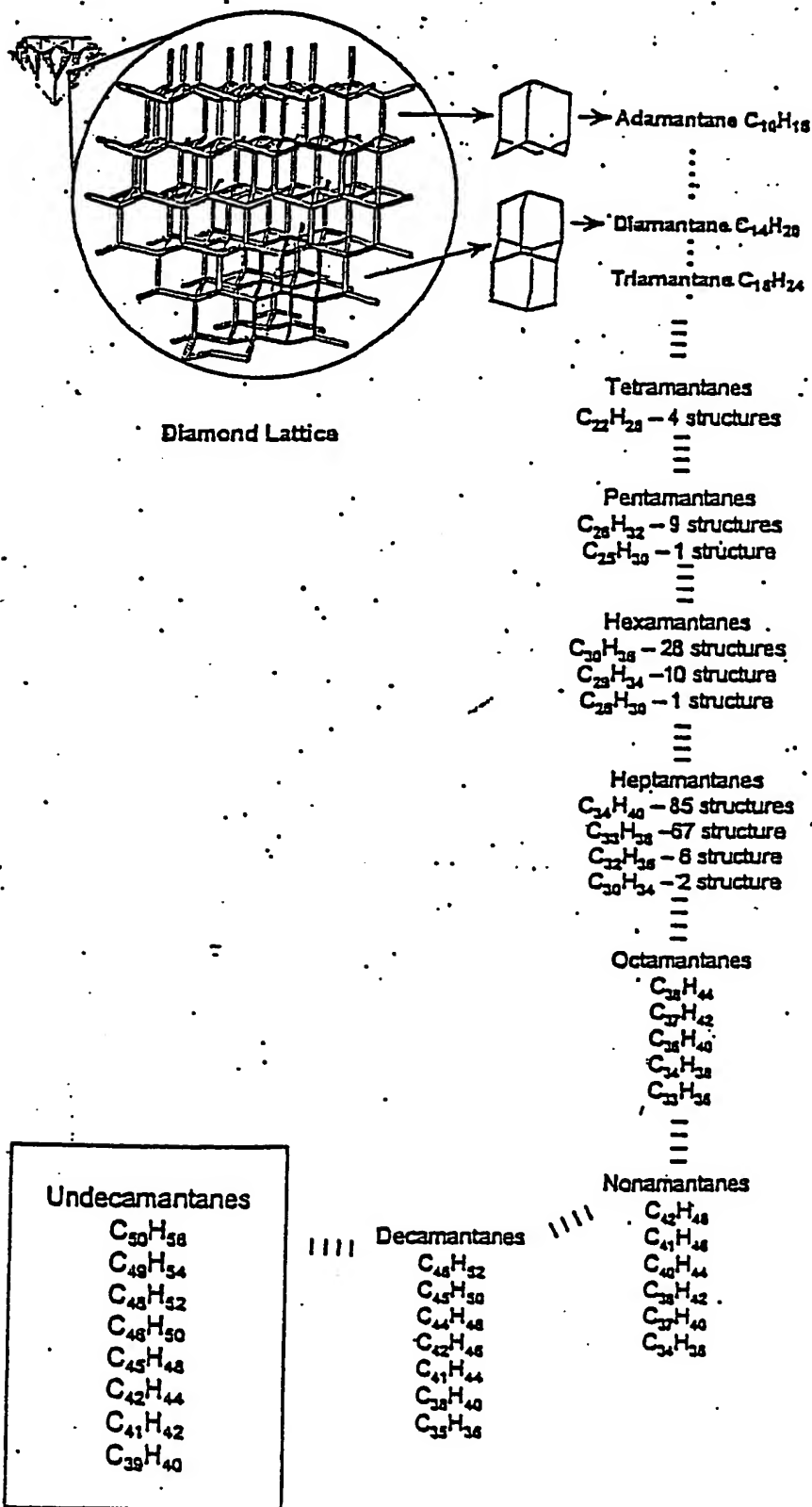


FIG. 4

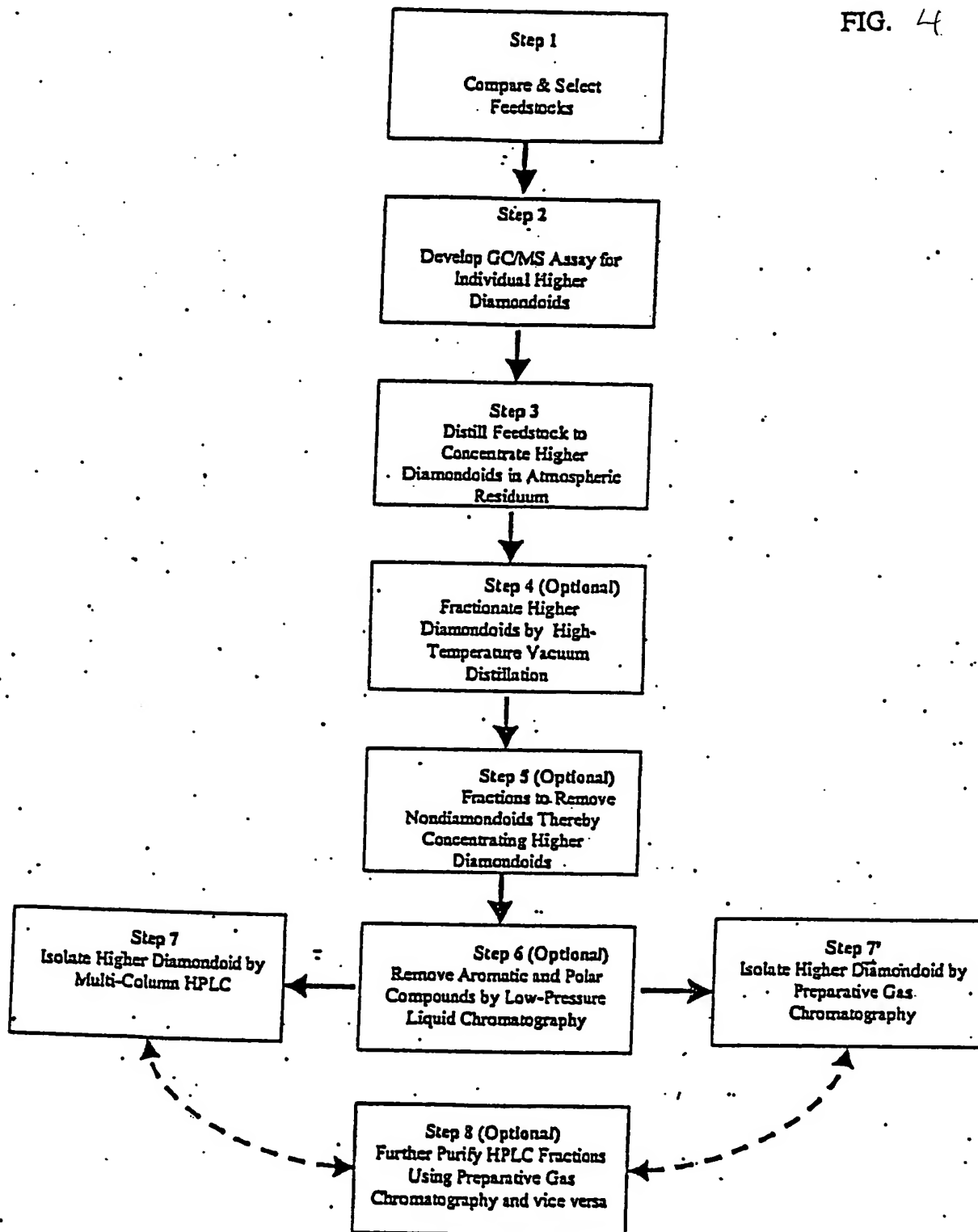


FIG. 5A

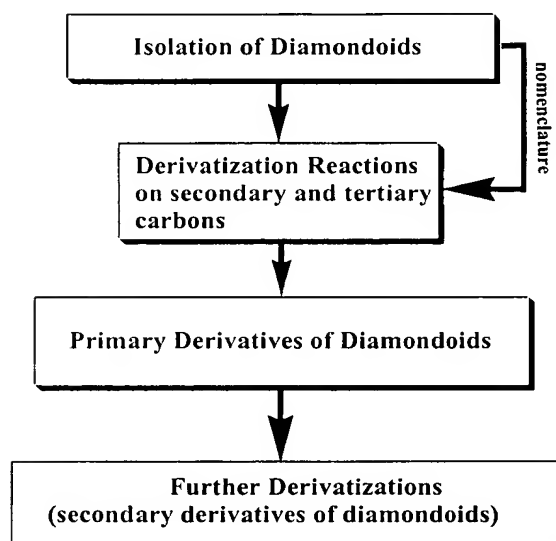


FIG. 5B

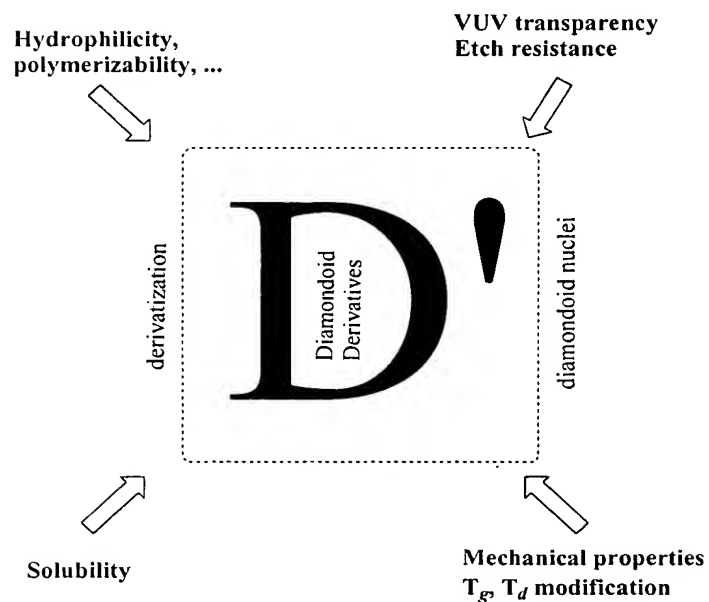


FIG. 6

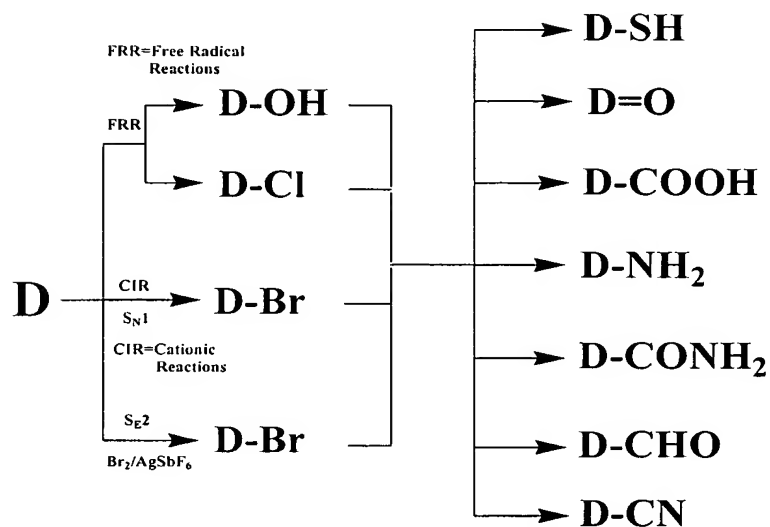


FIG. 7

Representative Ways of Generation of Diamondoid Cations (D^+)

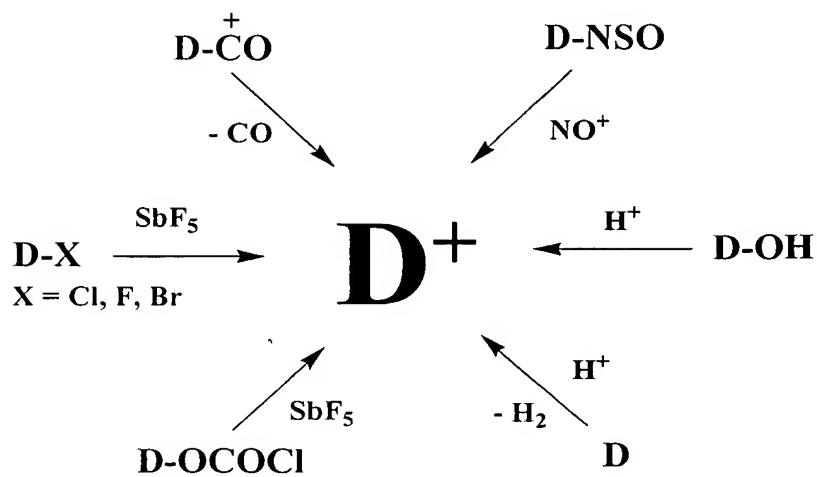


FIG. 8

Representative S_N1 Reactions of Diamondoid Carbocations

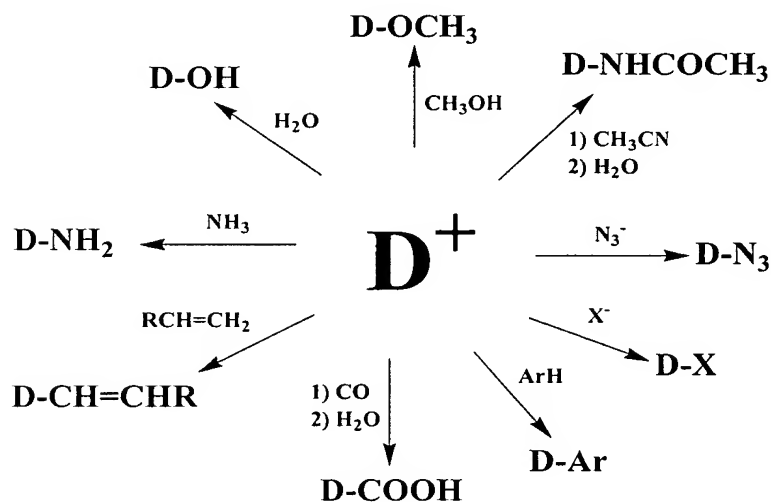


FIG. 9

Representative S_E2 Reactions of Diamondoids

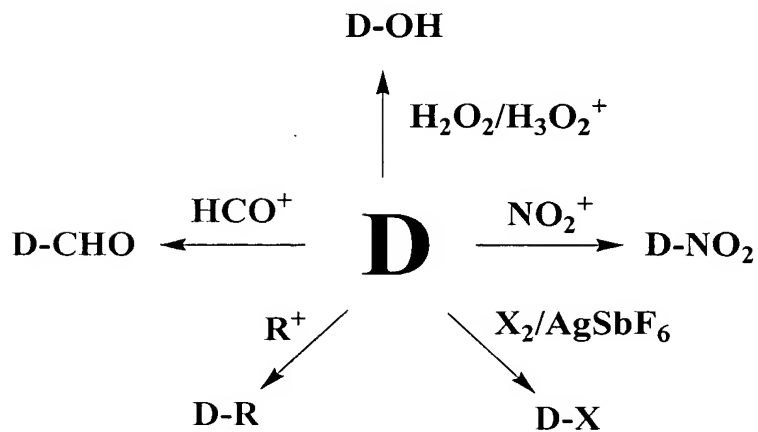


FIG. 10

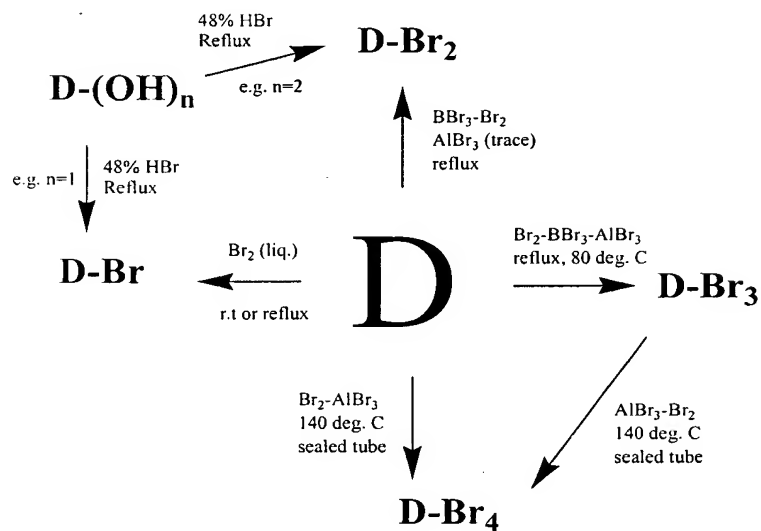


FIG. 11

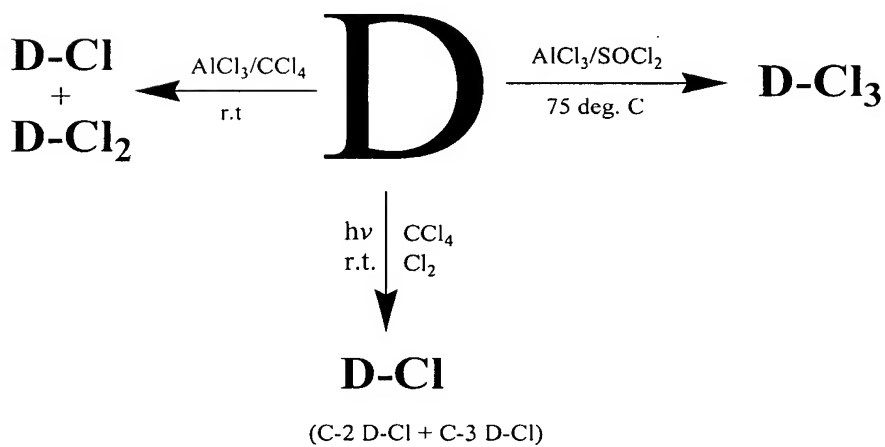


FIG. 12

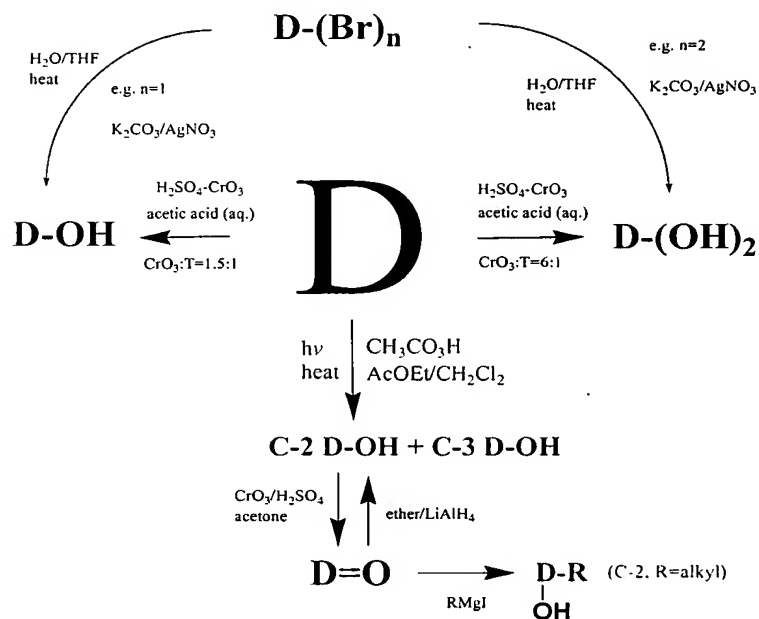


FIG. 13

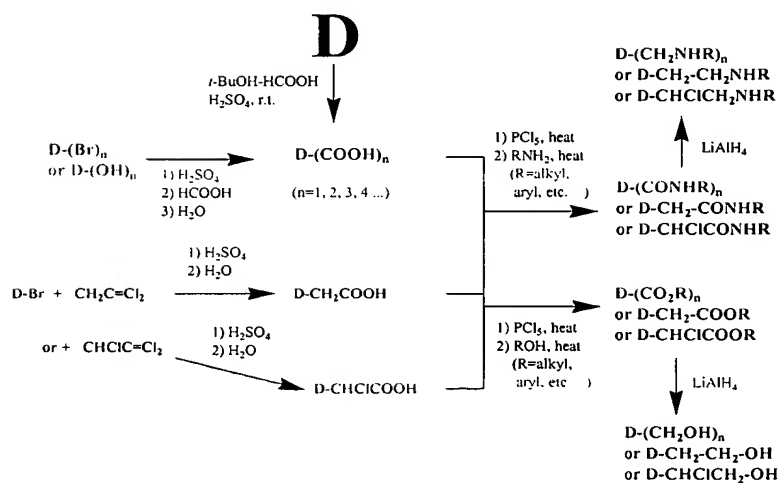


FIG. 14

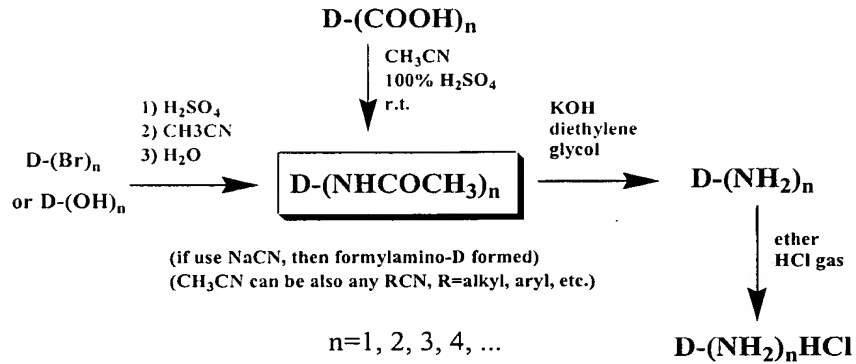


FIG. 15

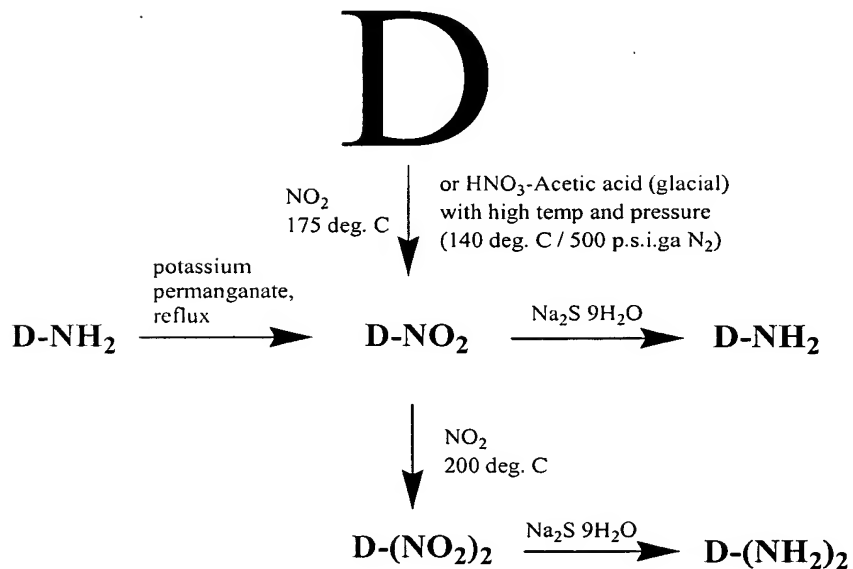


FIG. 16

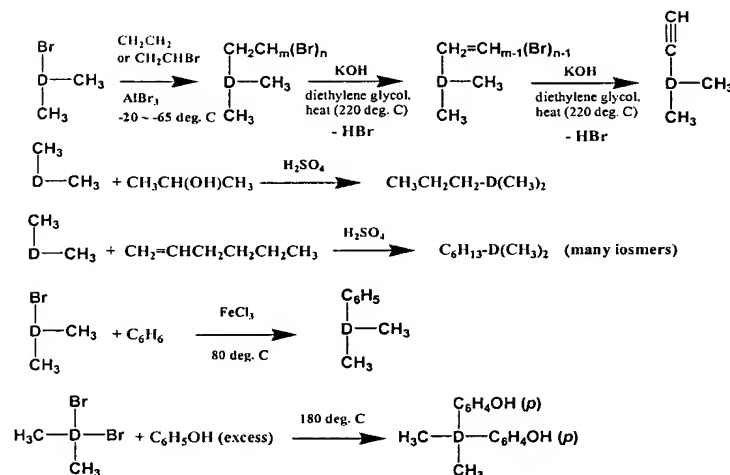


FIG. 17

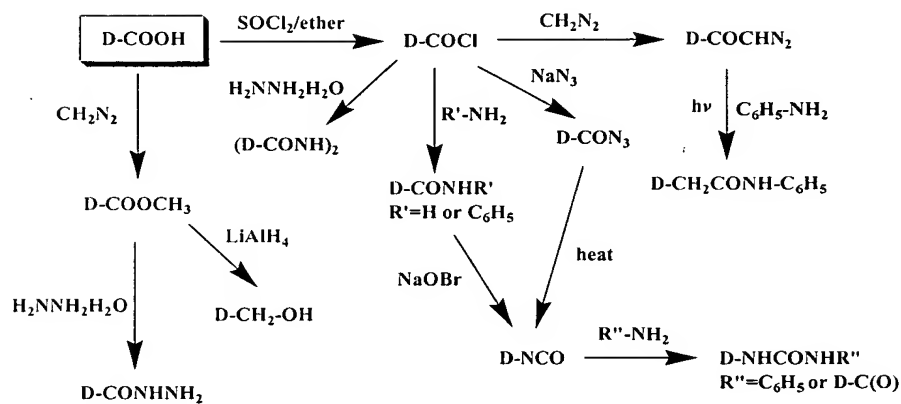


FIG. 18

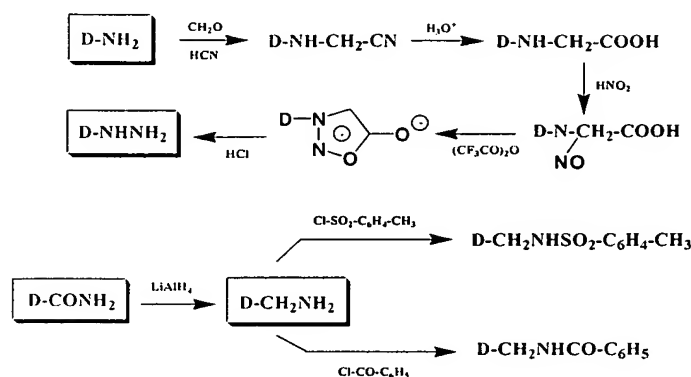


FIG. 19

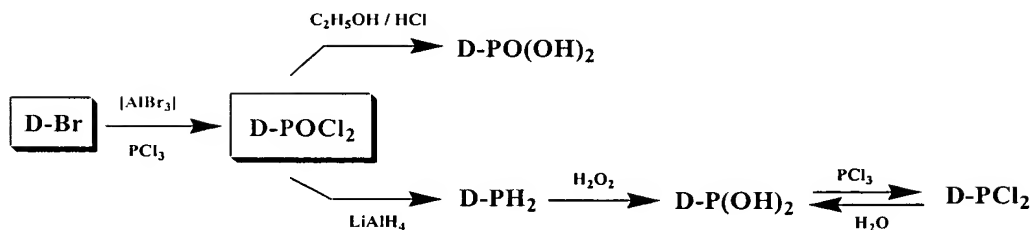


FIG. 20

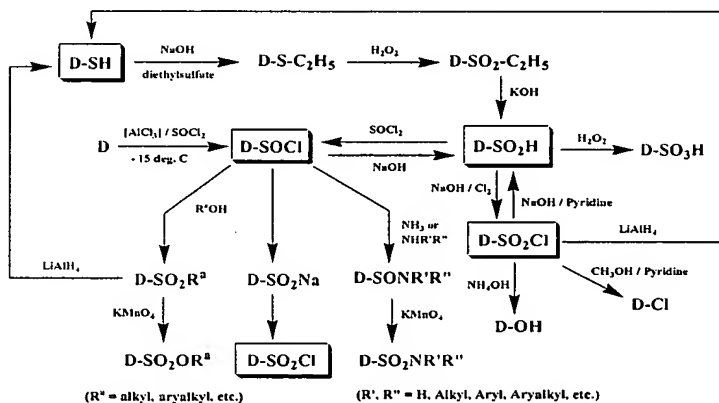


FIG. 21

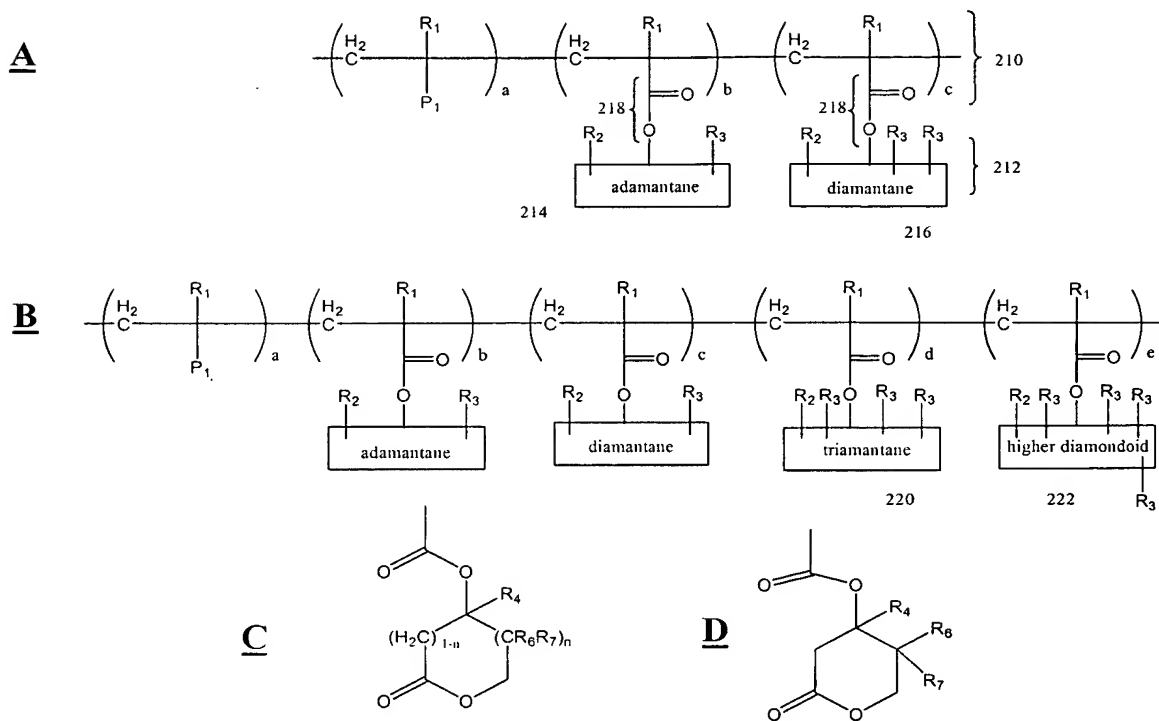


FIG. 22

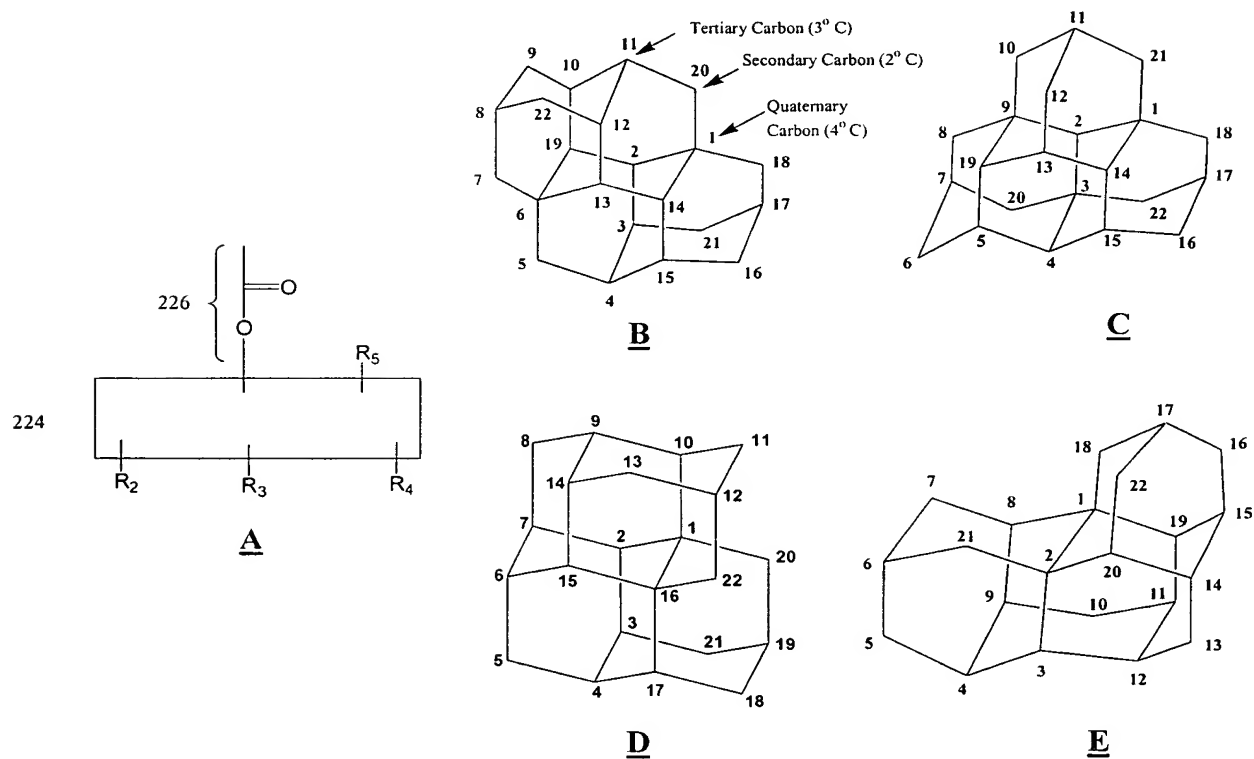
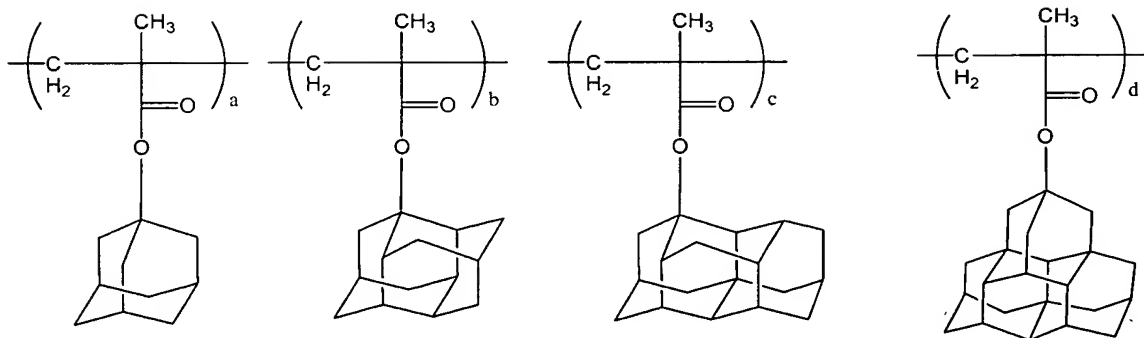


FIG. 23

A



$C_{14}H_{20}O_2$

$C_{18}H_{24}O_2$

$C_{22}H_{28}O_2$

$C_{26}H_{32}O_2$

Ohnishi's
Number (O.N.)

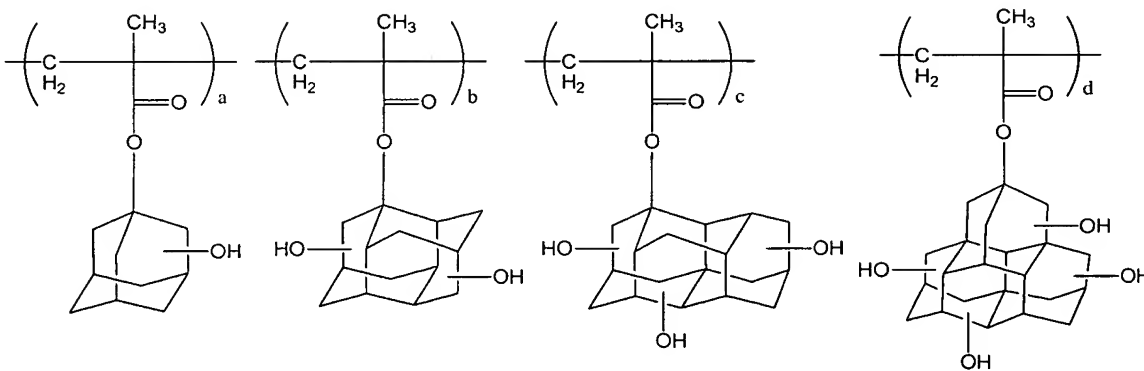
3.0

2.75

2.60

2.50

B



$C_{14}H_{20}O_3$

$C_{18}H_{24}O_4$

$C_{22}H_{28}O_5$

$C_{26}H_{32}O_6$

Ohnishi's
Number (O.N.)

3.36

3.28

3.23

3.20

FIG. 24

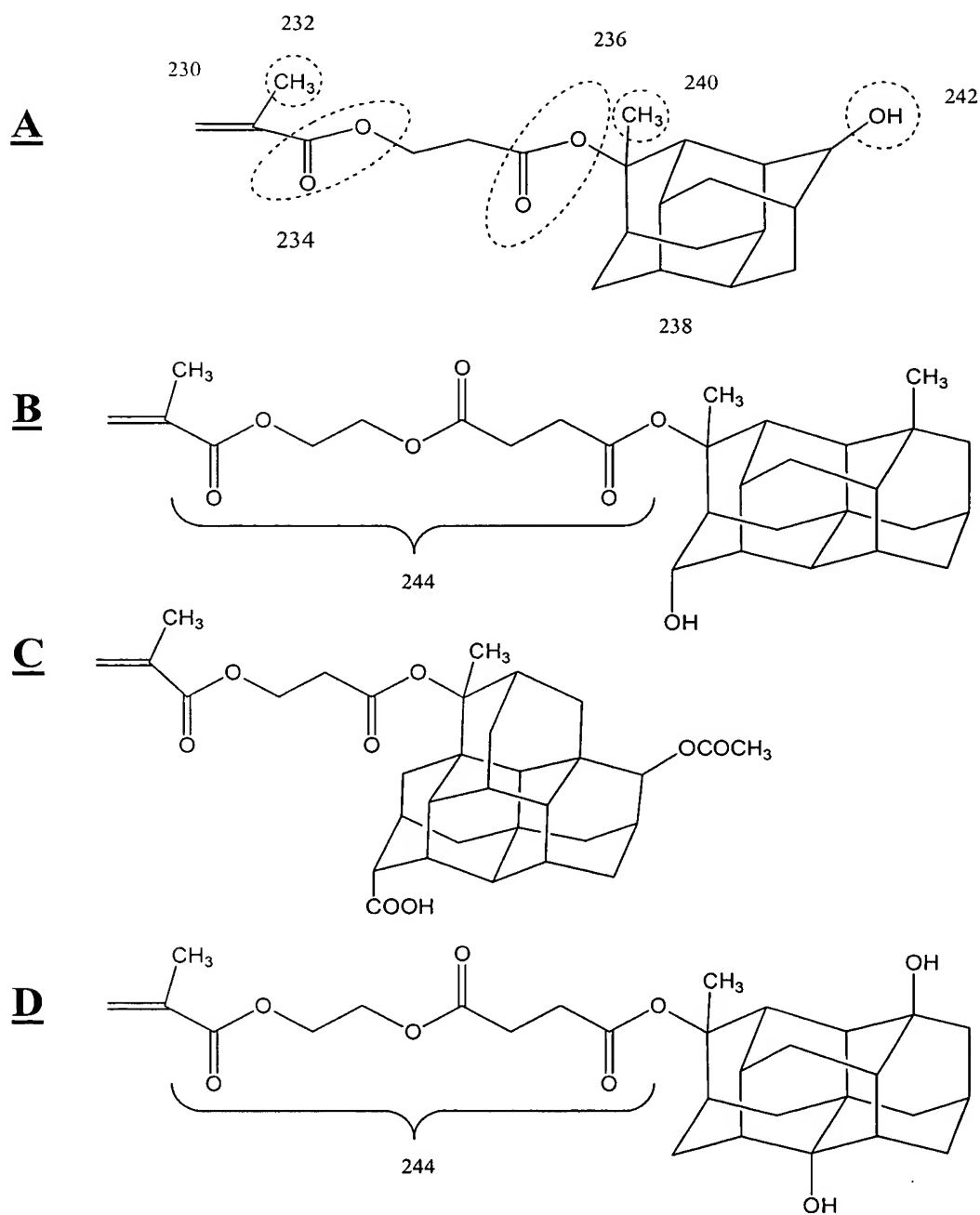
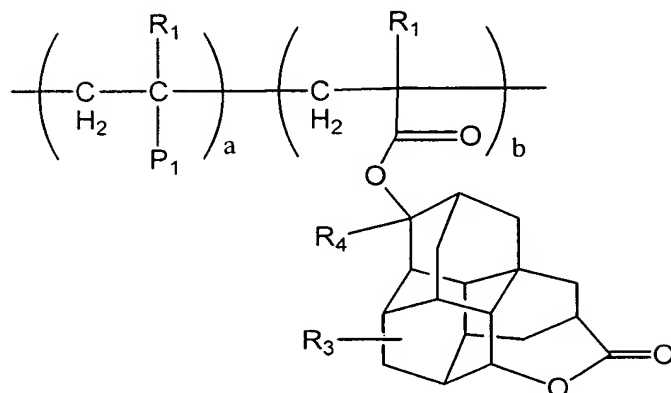


FIG. 25

A



B

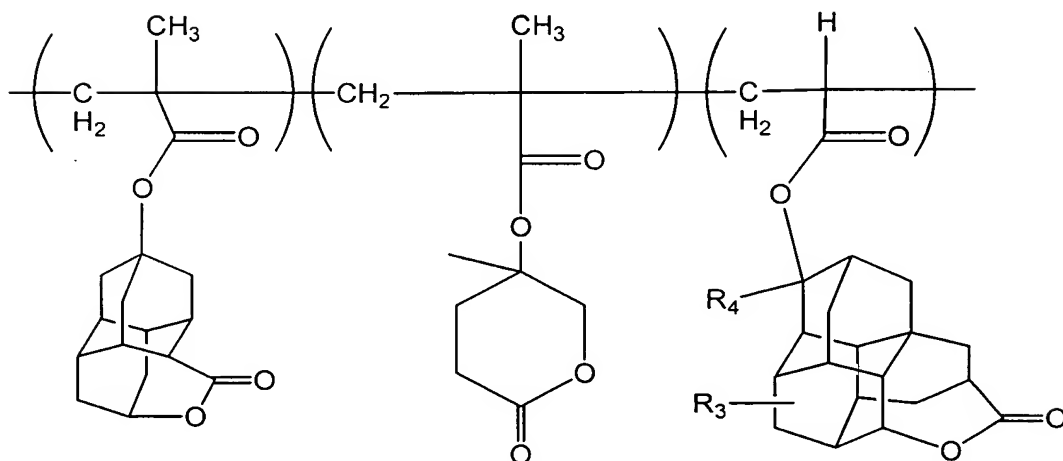
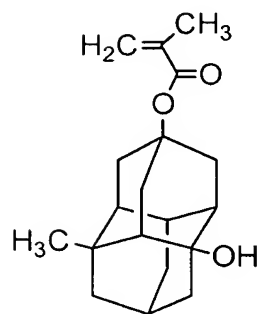
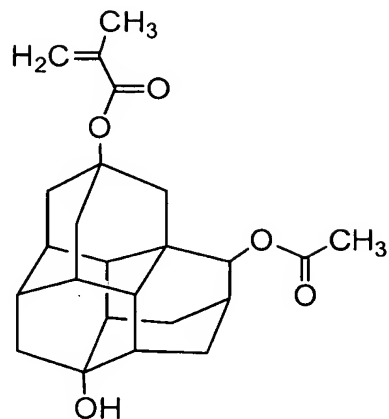


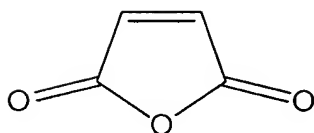
FIG. 26



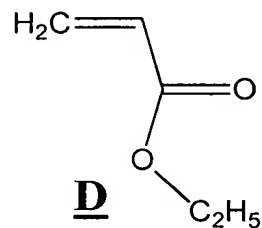
A



B



C



D

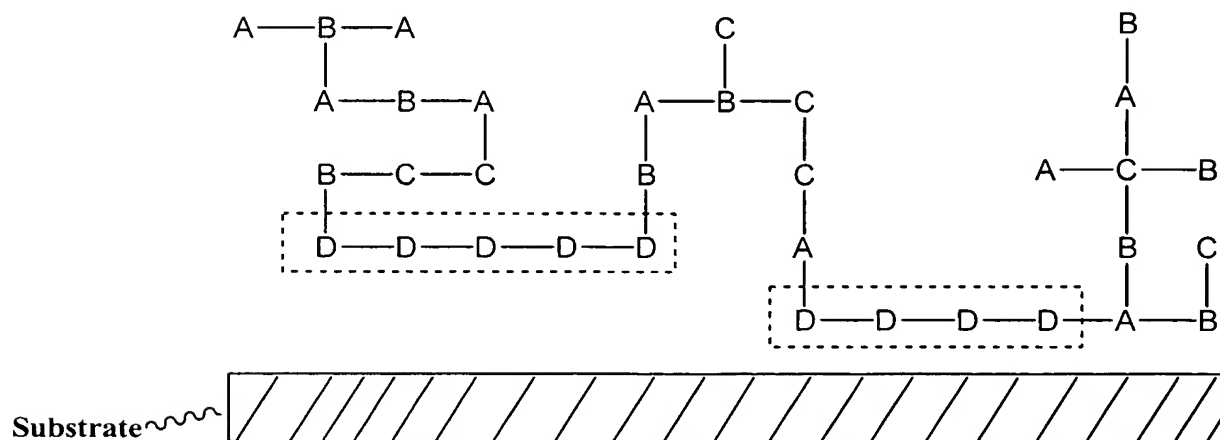


FIG. 27

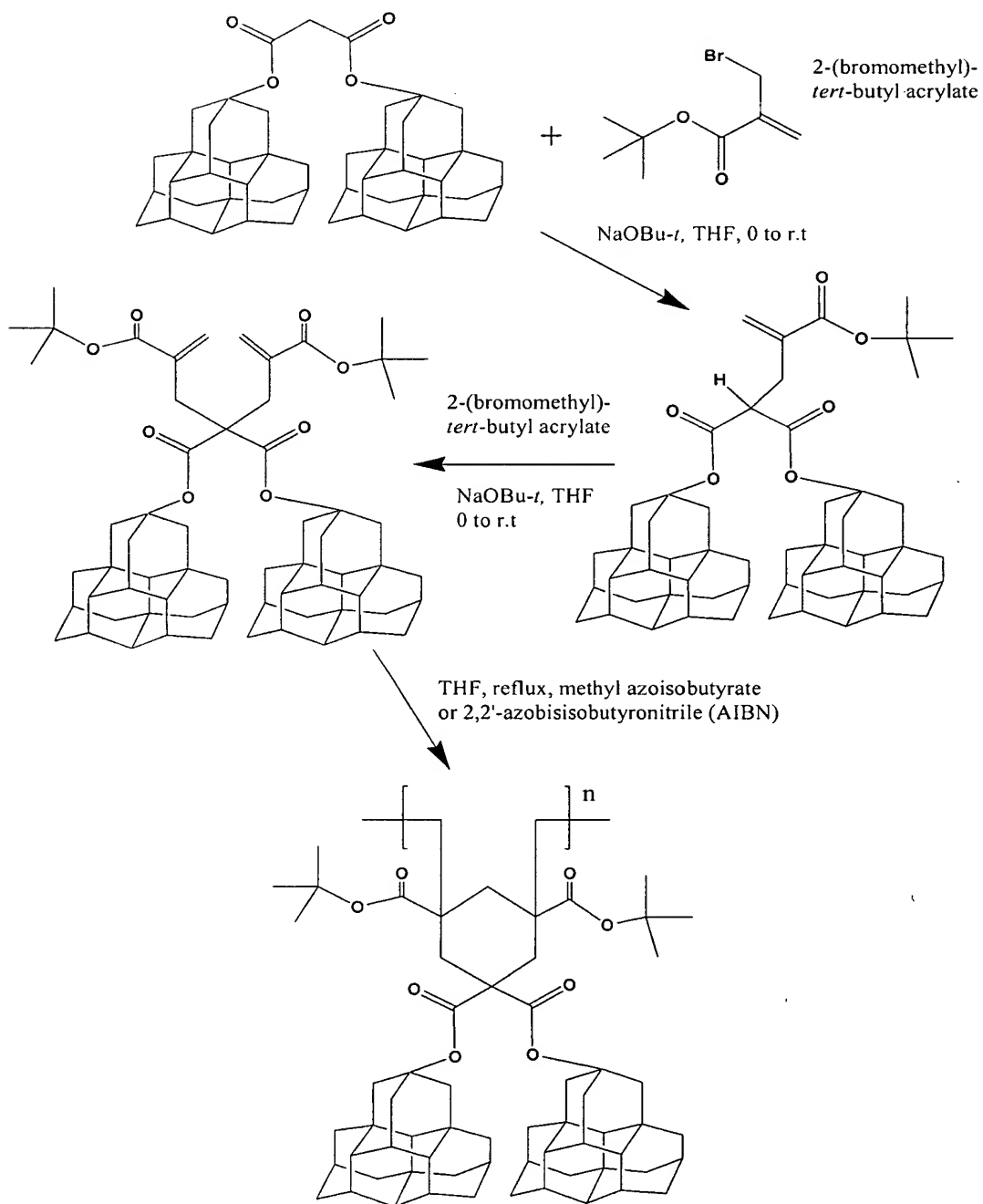


FIG. 28

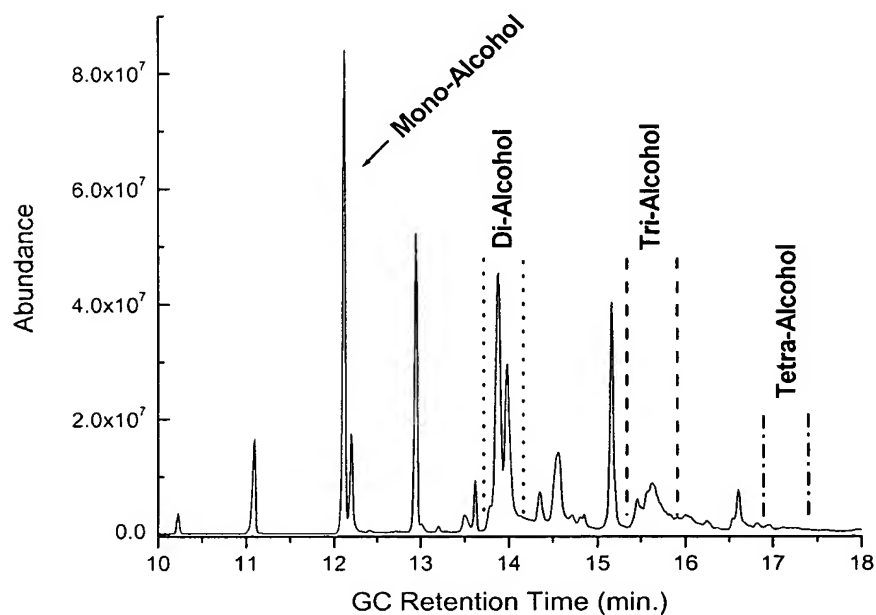


FIG. 29

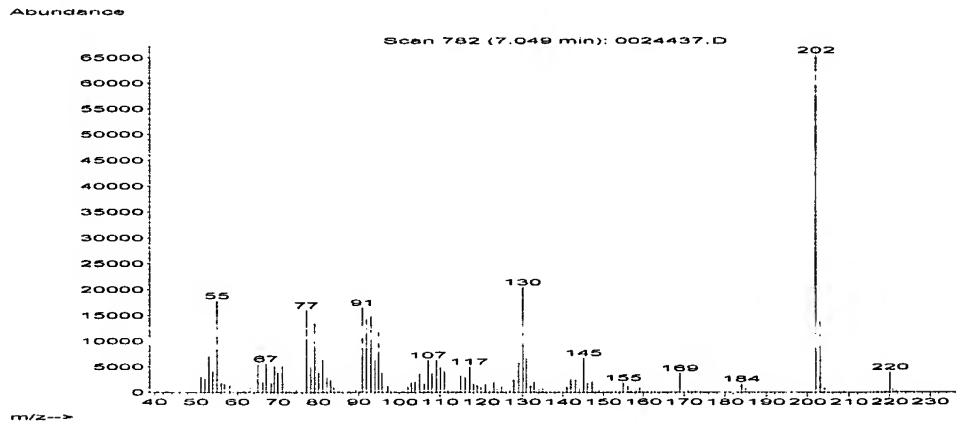
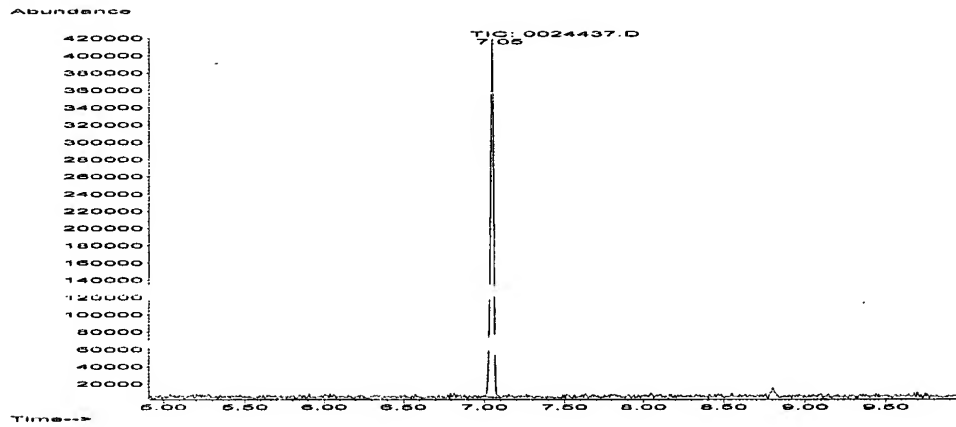


FIG. 30

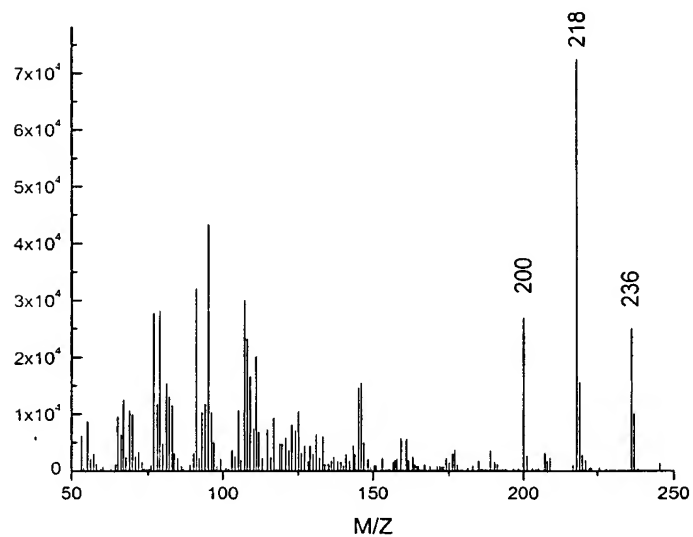
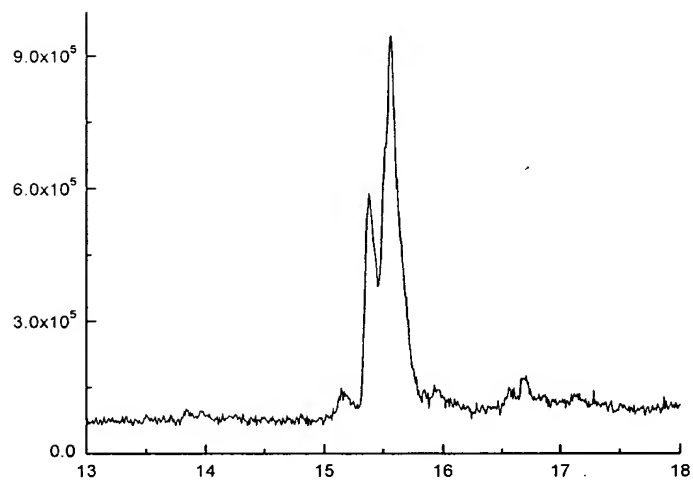


FIG. 31

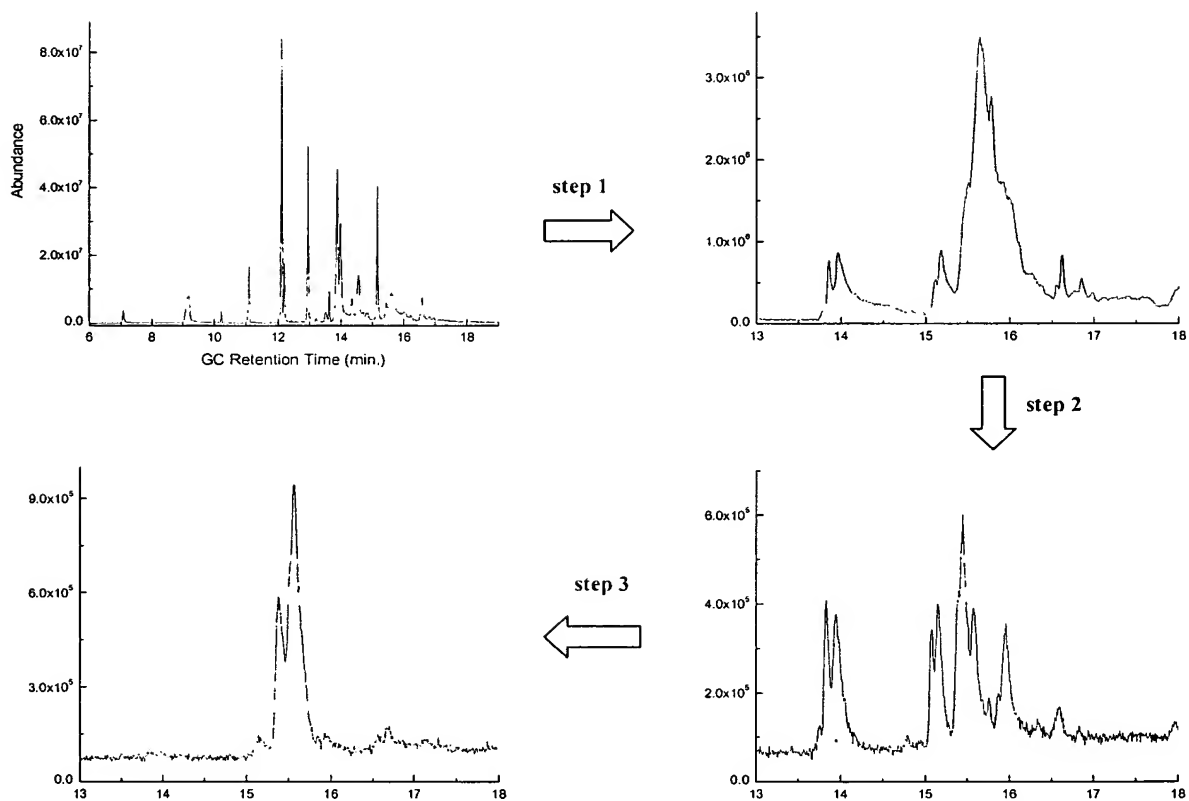


FIG. 32

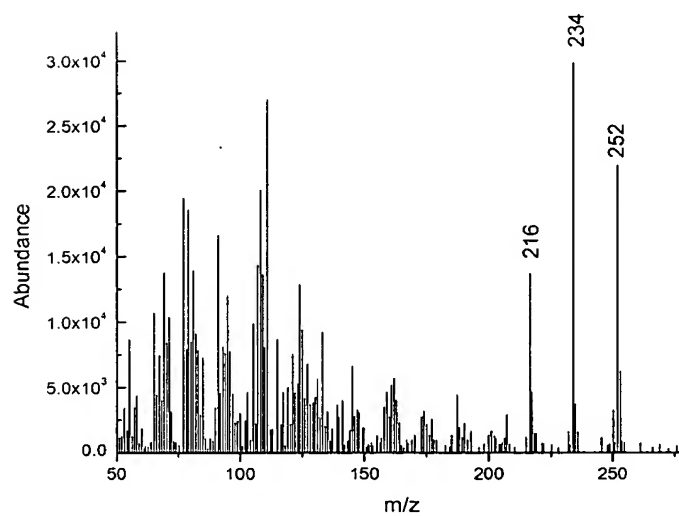
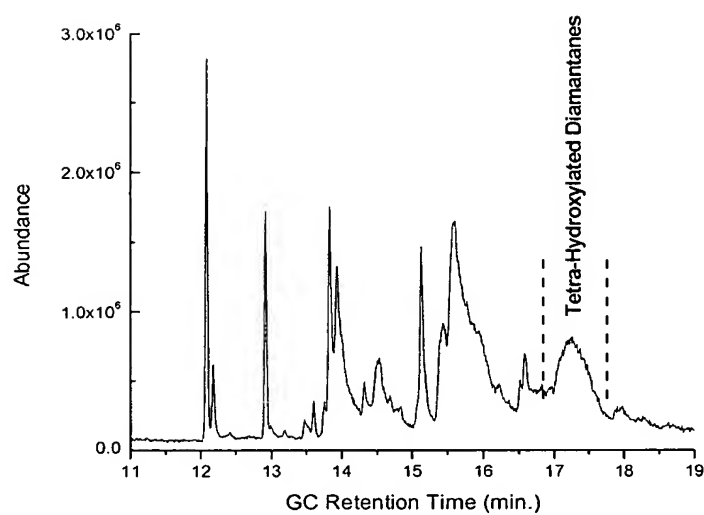


FIG. 33A

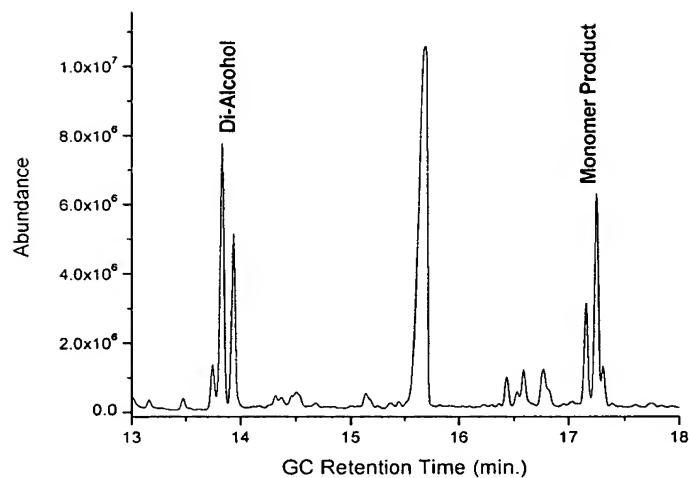


FIG. 33B

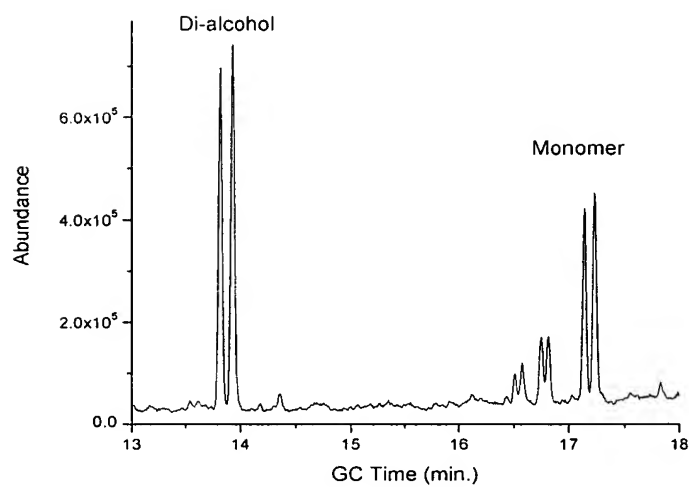


FIG. 34

